



MAIL STOP PCT

Attorney Docket No. 27127U

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

ALBECK et al.

Serial No.: 10/559,384

Filed: December 6, 2005

International Application No. PCT/IL2004/000672

International Filing Date: 22 July 2004(22.07.2004)

Title: **METHOD AND SYSTEM FOR THE THREE-DIMENSIONAL SURFACE  
RECONSTRUCTION OF AN OBJECT**

**TRANSMITTAL LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Submitted herewith for filing in the U.S. Patent and Trademark Office is the following:

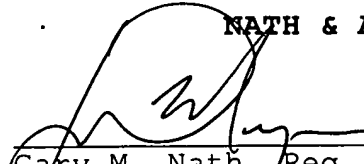
- (1) Transmittal Letter;
- (2) Information Disclosure Statement;
- (3) Form/IB/373 dated January 2006(International Preliminary Report on Patentability);
- (4) FormPCT/ISA/237(Written Opinion of the International Searching Authority);
- (5) PTO Form 1449 citing 14 references and Form PCT/ ISA/ 210 (International Search Report);
- (6) Copies of 9 of the 14 cited references.

The Commissioner is hereby authorized to charge any deficiency or credit any excess to Deposit Account No. 14-0112.

Respectfully submitted,

**NATH & ASSOCIATES PLLC**

By:

  
Gary M. Nath, Reg. No. 26,965  
Gregory B. Kang, Reg. No. 45,273  
Jerald L. Meyer, Reg. No. 41,194  
Customer No. 20529

Date: March 14, 2006  
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**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

An Information Disclosure Statement is submitted herewith pursuant to 37 C.F.R. 1.97-1.98. Please note the following particulars: [NOTE: One only of items a, b, c, and d must be checked.]

[**XXX**] a. The enclosed statement is being filed within three months of the filing date of a national application, or within three months of the date of entry into the national stage as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing date of a first Office Action on the merits, whichever event occurs last.

[ ] b. The enclosed statement is being filed after a first action on the merits but before the mailing date of a final action under 37 C.F.R. 1.113, or a notice of allowance under 37 C.F.R. 1.311.

The enclosed statement is accompanied by [check one]:

[ ] i. a certification in part (e) below as specified in 37 C.F.R. 1.97(e), or

[ ] ii. a check in the amount required by 37 C.F.R. 1.17(p).

[ ] c. The enclosed statement is being filed after the mailing date of a final action under 37 C.F.R. 1.113, or a notice of allowance under 37 C.F.R. 1.311, but before payment of the issue fee.

[ ] Certification report(e) below; and

☐ a check in the amount as required by 1.17(p).

☐ d. The enclosed statement is being filed pursuant to 37 C.F.R. 1.97(i), for placement in the file.

☐ e. Certification [Check one] [Certification is required only if box (b)(i) or box (c) is checked.]

☐ I hereby certify that each item of information contained in the enclosed Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement,  
or

☐ I hereby certify that no item of information in the enclosed Information Disclosure Statement herewith was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

or

☐ Appropriate certification is attached.

[~~xxx~~] f. If no check is enclosed and a fee is due in connection with this communication or if the check enclosed is insufficient, the Commissioner is authorized to charge any fee or additional fee due in connection with this communication to Deposit Account No. 14-0112.

[~~xxx~~] g. Copies of the documents are attached herewith with a completed Form PTO-1449.

or

☐ Copies of the documents are not attached as allowed under CFR 1.98(d)(1)(2). The earlier application is identified as:

and / or

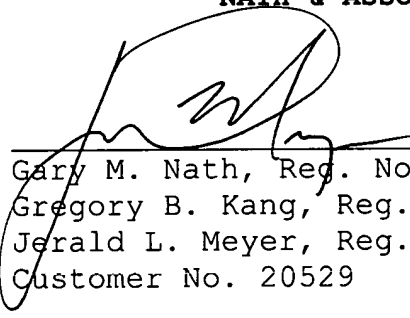
[XXX] Copies of US Patents/Publications not attached as allowed in Official Gazette Aug. 5, 2003/ Vol. 1273, no. 1.

The Examiner is respectfully requested to cite the documents listed on the attached Form PTO-1449 in the next Office Action. In so doing, the Examiner is respectfully requested to initial in the space adjacent to the listing of each document on the Form PTO-1449, and return a copy of the initialed Form PTO-1449 with the next communication to Applicants, to confirm that these documents have been considered by the Examiner and made of record in this application.

If the Examiner has any questions or wishes to discuss this application, kindly telephone the undersigned at the below-listed number.

Respectfully submitted,  
**NATH & ASSOCIATES PLLC**

By:

  
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Gary M. Nath, Reg. No. 26,965  
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FORM PTO-1449

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27127U

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International Application No.  
PCT/IL 2004/000672Group Art Unit:  
UnknownInternational Filing Date:  
22 July 2004 (22.07.2004)**U.S. PATENT DOCUMENTS**

Examiner Initial		Document Number	Issue/Pub Date	Name	Class	Sub-Class	Filing Date
	AA	6,510,244 B2	21 Jan. 2003	Proesmans et al.			12 Jun. 1997
	AB	6,252,623 B1	26 Jun. 2001	Lu et al.			15 May 1998
	AC	6,094,198	25 Jul. 2000	Shashua			27 Jan. 1997
	AD	2003/0174880 A1	18 Sep. 2003	Sakamoto et al.			11 Mar. 2003
	AE	6,229,913 B1	8 May 2001	Nayar et al.			7 Jun 1995

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Sub-Class	Translation
	AF	99/28704 A1	10 Jun. 1999	WO			N/A

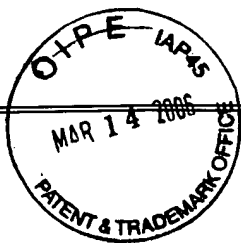
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AG	Salvi, J., et al., "Pattern codification strategies in structured light systems", <u>Institut d'Informatica i Aplicacions Universitat de Girona</u> , pages 1- 26, (2004).
	AH	Bergen, J.R., et al., "Hierarchical Motion-Based Frame Rate Conversion", <u>David Sarnoff Research Center</u> , Princeton NJ, pages 1-15, (1990).

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP ' 609.  
 Draw line through citation if not in conformance and not considered.  
 Include copy of this form with next communication to Applicant.



FORM PTO-1449

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## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Issue/Pub Date	Name	Class	Sub-Class	Filing Date
AI						

## FOREIGN PATENT DOCUMENTS

AK						
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AM		Sansoni, G., et al., "Three-dimensional imaging based on Gray-code light projection: characterization of the measuring algorithm and development of a measuring system for industrial applications", <u>APPLIED OPTICS</u> , Vol. 36, No. 19, pages 4463-4472, (1997).
AN		Gühring, J., et al., "Data Processing and Calibration of a Cross-Pattern Stripe Projector", <u>IAPRS</u> , Vol.33, 12 pages, (2000).
AO		XP000466818: Sansoni, G., et al., "A Novel, Adaptive System for 3-D Optical Profilometry Using A Liquid Crystal Light Projector", <u>IEEE TRANSACTION ON INSTRUMENTATION AND MEASUREMENT</u> , IEEE INC., Vol. 43, No. 4, pages 558-565, (1994).
AP		Battle, J., et al., "Recent progress in coded structured light as a technique to solve the correspondence problem: A survey", <u>PATTERN RECOGNITION</u> , Vol.31 No.7, pages 963-982, (1998).
AQ		Salvi, J., et al., "Pattern codification strategies in structured light systems", <u>PATTERN RECOGNITION</u> , Vol.37, No. 4, pages 827-849, (2004).
AR		Fofi, D., et al., "Uncalibrated reconstruction: an adaption to structured light vision, <u>PATTERN RECOGNITION</u> , Vol. 36, No. 7, (2003).

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